

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 1 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 31/32, line 40, through Col. 53/54, line 42 replace it with the following –

**SEQUENCE LISTING**

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tgcaaggctt	ctggctacac	atttaccagt	tacaatatgc	actggtaaa	acagacaccc	2580

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 10 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ggtcggggcc tggaaatggat tggagctatt tatcccggaa atggtgatac ttccctacaat	2640
cagaagttca aaggcaaggc cacattgact gcagacaaat cctccagcac agcctacatg	2700
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aaatcttgtg acaaaaactca cacatgccca ccgtgcccag cacctgaact cctggggggg	3180
ccgtcagtct tcctcttccc cccaaaaccc aaggacacccc tcatgatctc ccggaccct	3240
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cagcagggga acgtctctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg	3780
cagaagagcc tctccctgtc tccggtaaa tgaggatccg ttaacggta ccaactacct	3840
agactggatt cgtgacaaca tggggccgtg atatctacgt atgatcagcc tcgactgtgc	3900
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ggtgtcattc tattctgggg ggtgggggtgg ggcaggacag caagggggag gattggaaag	4080
acaatagcag gcatgttggg gatgcgggtgg gctctatgga accagctggg gctcgacagc	4140

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 11 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

gctggatctc ccgatccccca gctttgttc tcaatttctt atttgcataa tgagaaaaaa	4200
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gccatcatgg ttcgaccatt gaactgcac tgcggcggt cccaaaatat ggggatttggc	4680
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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 12 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

gactccctaag ccagttagtg gcacaggcatt ctagggagaa atatgcttgt catcacccaa	5760
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cgcaggttct cccggcgtt ggggtggagag gctattccgc tatgactggg cacaacagac	6000
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tgtcaagacc gacctgtccg gtccccctgaa tgaactgcag gacgaggcag cgccgctata	6120
gtggctggcc acgacggcg ttccctgcg agctgtgtc gacgttgtca ctgaagcggg	6180
aagggactgg ctgctattgg gcgaaatgtcc ggggcaggat ctccctgtcat ctcaccttgc	6240
tcctgcggag aaagtatcca tcatggctga tgcaatgcgg cggctgcata cgcttgcata	6300
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tggcgatgcc tgcttgcgaa atatcatggt ggaaaatggc cgctttctg gattcatcga	6540
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gggggtgccta atgagtggc taactcacat taattgcgtt ggcgtcaatc cccgctttcc	7200
agtcgggaaa cctgtcgatc cagctgcatt aatgaatcg ccaacgcgcg gggagaggcg	7260

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 13 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

gtttgcgtat	tgggcgtct	tccgcttcct	cgctcaactga	ctcgctgcgc	tcggcgttc	7320
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gacgctcaag	tcagagggtgg	cgaaacccga	caggactata	aagataccag	gcgtttcccc	7560
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gctccgggtc	ccaacgatca	agggaggtt	catgatcccc	catgttgtgc	aaaaaaagcgg	8640
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tggttatggc	agcactgcat	aattcttta	ctgtcatgcc	atccgtaa	tgctttctg	8760
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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 14 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

cttgcggcgtcaatacggataatacccgccccacatagcagaactttaaagtgctca	8880
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cgcgcacatttccccaaaaatgtgcacact	9209

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 15 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 3  
<211> LENGTH: 384  
<212> TYPE: DNA  
<213> ORGANISM: *Mus musculus*

<400> SEQUENCE: 3

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gtcacaatga cttgcagggc cagccctgtt gcacatctccag gggagaaggt cacaatgact	180
tgcaggggcca gccccaaacc ctggatttat gccacatcca acctggcttc tggagtcct	240
gttcgcttca gtggcagtgg gtctggact tcttactctc tcacaatcag cagagtggag	300
gctgaagatg ctgccactta ttactgccag cagtggacta gtaacccacc cacgttcgga	360
ggggggacca agctggaaat caaa	384

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
<210> SEQ ID NO 4
<211> LENGTH: 128
<212> TYPE: PRT
<213> ORGANISM: Mus musculus

<400> SEQUENCE: 4
Met Asp Phe Gln Val Gln Ile Ile Ser Phe Leu Leu Ile Ser Ala Ser
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Val Ile Met Ser Arg Gly Gln Ile Val Leu Ser Gln Ser Pro Ala Ile
20          25          30
Leu Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Arg Ala Ser
35          40          45
Ser Ser Val Ser Tyr Ile His Trp Phe Gln Gln Lys Pro Gly Ser Ser
50          55          60
Pro Lys Pro Trp Ile Tyr Ala Thr Ser Asn Leu Ala Ser Gly Val Pro
65          70          75          80
Val Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
85          90          95
Ser Arg Val Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp
100         105         110
Thr Ser Asn Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
115         120         125
```

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 5  
<211> LENGTH: 420  
<212> TYPE: DNA  
<213> ORGANISM: Mus musculus

<400> SEQUENCE: 5

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cctgtcccag	
gtacaactgc agcaggctgg ggctgagctg	120
gtgaagoctg gggcctcagt gaagatgtcc	
tgcaaggctt ctggctacac atttaccagt	180
tacaatatgc actgggtaaa acagacacct	
ggtcggggcc tggaatggat tggagctatt	240
tatcccgaa atggtgatac ttccctacaat	
cagaagttca aaggcaaggc cacattgact	300
gcagacaat ctcgcagcac agcctacatg	
cagctcagca gcctgacatc tgaggactct	360
gcggtctatt acttgcaag atcgacttac	
tacggcggtg actggtaactt caatgtctgg	420
ggcgcaggga ccacggtcac cgtctctgca	

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 6

<211> LENGTH: 140

<212> TYPE: PRT

<213> ORGANISM: *Mus musculus*

<400> SEQUENCE: 6

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Val Leu Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys  
20 25 30  
Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
35 40 45  
Thr Ser Tyr Asn Met His Trp Val Lys Gln Thr Pro Gly Arg Gly Leu  
50 55 60  
Glu Trp Ile Gly Ala Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn  
65 70 75 80  
Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser  
85 90 95  
Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val  
100 105 110  
Tyr Tyr Cys Ala Arg Ser Thr Tyr Tyr Gly Gly Asp Trp Tyr Phe Asn  
115 120 125  
Val Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ala  
130 135 140

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2

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APPLICATION NO. : 09/911703

DATED : September 9, 2008

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 7  
<211> LENGTH: 27  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: impaired Kozak sequence and restriction enzyme site

<400> SEQUENCE: 7

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27

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
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DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 8  
<211> LENGTH: 47  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence  
  
<220> FEATURE:  
<223> OTHER INFORMATION: PCR Primer  
  
<400> SEQUENCE: 8  
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47

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2

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APPLICATION NO. : 09/911703

DATED : September 9, 2008

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 9  
<211> LENGTH: 30  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence

<220> FEATURE:  
<223> OTHER INFORMATION: PCR Primer

<400> SEQUENCE: 9  
tgccatcc gtacgttga tttccagctt

30

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2

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APPLICATION NO. : 09/911703

DATED : September 9, 2008

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 10  
<211> LENGTH: 27  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence

<220> FEATURE:  
<223> OTHER INFORMATION: PCR Primer

<400> SEQUENCE: 10  
gccccatccca cgcgtgtctt gtcccaag

27

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,422,739 B2  
APPLICATION NO. : 09/911703  
DATED : September 9, 2008  
INVENTOR(S) : Anderson et al.

Page 23 of 23

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
<210> SEQ ID NO 11
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: PCR Primer

<220> FEATURE:
<221> misc_feature
<222> LOCATION: (1)..(29)
<223> OTHER INFORMATION: s is g or c

<220> FEATURE:
<221> misc_feature
<222> LOCATION: (1)..(29)
<223> OTHER INFORMATION: m is a or c

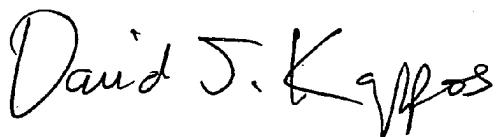
<220> FEATURE:
<221> misc_feature
<222> LOCATION: (1)..(29)
<223> OTHER INFORMATION: r is g or a

<400> SEQUENCE: 11
ggstgttgtg cttagctgmrg agacacrgtga
```

29

Signed and Sealed this

Twenty-fifth Day of August, 2009



David J. Kappos  
*Director of the United States Patent and Trademark Office*